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(54) Title: ANTI-BACTERIAL PLANT COMPOSITIONS

(57) Abstract: The invention provides a pharmaceutical composition which comprises a pharmaceutical carrier and at least one compound selected from the group consisting of cobaltacene-octogmet, stigmastan-3,5-diene, galoxolide, benzyl salicylate, eucalyptol, and α -pinene. Also provided is a method of preparing a composition having antimicrobial activity comprising extracting a plant material in an organic solvent, contacting the extracted material to a chromatographic column, and eluting from the chromatographic column with a mobile polar phase to obtain a composition. The plant material is from *Mammea Americana*, *Marchantaceae polymorpha*, or *Callistemon citrinus*. Also provided is a method of inhibiting the growth of a mycobacterium, comprising administering a composition comprising a carrier and at least one compound selected from among cobaltacene-octogmet, stigmastan, 3,5-diene, friedelin, galoxolide, benzyl salicylate, eucalyptol, and α -pinene.

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